SAGEM

www.sagem.com/adsl/

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English

Default parameters
SSID = F@st1400W

SAGEM
F@ST™1400
F@ST™1400W
User guide

SAGEM

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PRESENTATION

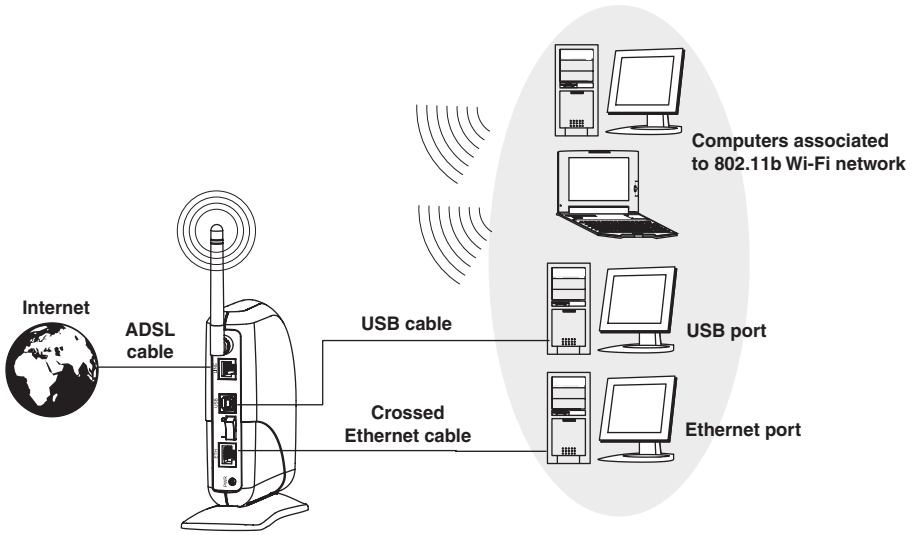
This guide will enable you to easily install your SAGEM F@st™ 1400/1400W modem/router.

This unit is an ADSL Wi-Fi modem/router integrating three functions:

1. An integrated ADSL modem for a direct connection to your ADSL line.
2. A router enabling you to simultaneously connect several computers to this ADSL line.
3. A wireless access point linking your computers with no additional wiring (SAGEM F@st™ 1400W only).

This modem/router has three types of local interface for connection with the computers making up your local network:

- 1 USB port.
- 1 Ethernet 10/100BT port.
- 1 Wi-Fi wireless access point (SAGEM F@st™ 1400W only).



What is Wi-Fi ? (SAGEM F@st™ 1400W only)
Wi-Fi is a wireless network technology. With it, owing to the SAGEM F@st™ 1400W modem/router, the various computers connected to this wireless network are able to share your ADSL line. The wireless network complies with the IEEE 802.11b standard.

Symbols used in this guide

Warns you against a hazardous act or omission.

Gives important information that you should be aware of.

1.1 Prerequisites

The following elements are required before the modem/router can be used:

- a telephone line able to accommodate ADSL transmission,
- a subscription with a high-speed Internet Service Provider,
- a computer with a USB or Ethernet port,
- a Web browser (preferably Internet Explorer from version 5 up).

The minimum configuration of your computer must be:

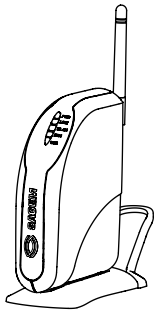
- for Windows: Pentium II, 400 MHz, RAM: 128 MB,
- for MacOS: Power PC G3, 233 MHz, RAM: 128 MB,
- 30 MB of available space on your hard disk,
- a monitor with a minimum resolution of 1024 x 768.

If your computer does not have the Wi-Fi function, it will have to be fitted with a Wi-Fi accessory (IEEE 802.11b standard).

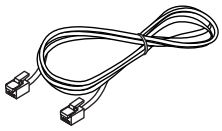
Several types are available:

- USB Wi-Fi keys
- PCMCIA Wi-Fi boards
- PCI Wi-Fi boards

1.2 Contents of the SAGEM F@st™ 1400/1400W modem/router package

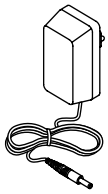


ADSL Wi-Fi modem/router (1)

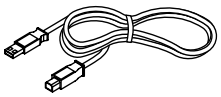


ADSL line cord (RJ11/RJ11) (2)

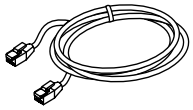
ADSL filter (option) (3)



Power block (4)



USB cable (type A USB/ type B USB) (5)



Ethernet cable (RJ45/RJ45 crossed cable) (6)

+ Ethernet initialization key (7)
+ Installation CD-ROM
+ Quick installation guide

The installation CD-ROM contains the detailed reference manual for the modem/router.

This guide shows you the steps you have to follow in order to get connected to the Internet:

1. **Installing the hardware.**
2. **Configuring the modem/router.**
3. **Configuring the wireless network.**

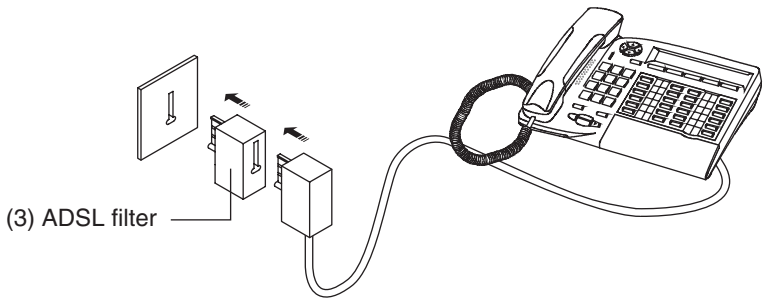
INSTALLING THE HARDWARE

1 Installing the ADSL filters

Installing a filter on all the phone plugs used is essential for ensuring that your phone terminals and modem/router operate correctly (3 filters maximum per installation).

Carry out the following steps:

- unplug the telephone cable from your appliance (telephone, fax, etc.),
- insert a filter into the plug,
- plug your appliance back onto the ADSL/RTC separator filter.

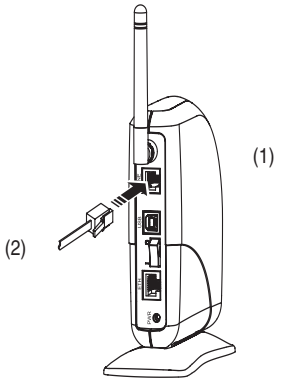


2 Installing the modem/router

Rotate the antenna in such a way as to be able to insert the cables in their respective fixed connectors.

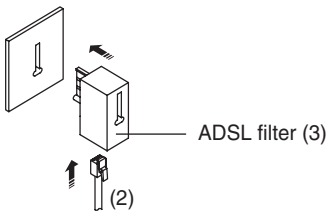
2.1 Plugging in the telephone line cord

- Connect one end of the ADSL telephone line cord (2) to the **LINE** port on your modem/router.

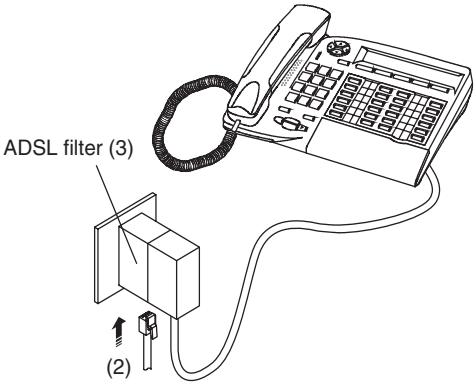


Do not insert the line cord in the Ethernet port marked ETH. This may damage your modem/router.

- Connect the other end of the ADSL line cord to one of the ADSL filters on your installation.



Connection with no telephone set



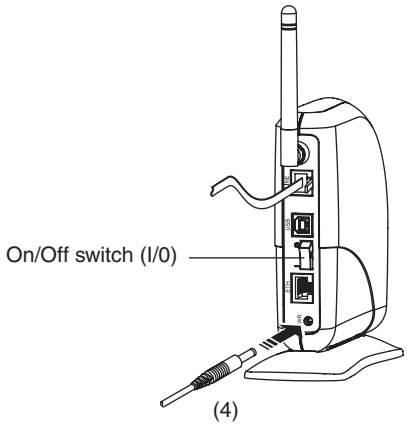
Connection with a telephone set or a FAX

The line cord is the black RJ-11-type cord. Do not mistake it for the RJ-45-type Ethernet cable. The RJ-11 connector is narrower than the RJ-45.

2.2 Powering up the modem/router

- Connect the cable (4) to the **PWR** port located on the rear panel of the modem/router.
- Connect the power pack to a nearby socket.
- Set the On/Off switch (I/0) to On (the "**I**" position).

The **PWR** LED comes on.



After a few minutes, the modem/router is automatically synchronized with your ADSL line. The **LINE** LED comes on permanently.

You can now connect your computers to the SAGEM F@st™ 1400/1400W modem/router:

- **via the USB interface,**
  see chapter 4 "Connection via the USB port" ..... page 12
- **via the Ethernet interface,**
  see chapter 3 "Connection via the Ethernet port" ..... page 10
- **via the wireless network interface (SAGEM F@st™ 1400W only)**
  see section entitled "Configuring the wireless network" ..... page 22

In no event should you connect your modem/router to a single computer using the USB and Ethernet cables simultaneously.

CONFIGURING THE MODEM/ROUTER

1 Preliminary configuration

You can configure your modem/router via its HTTP configuration interface. This interface is visible from your Web browser.

This chapter describes the steps making possible:

- access to this HTTP configuration interface,
- configuration of your Internet account on the modem/router,
- access to the Internet.

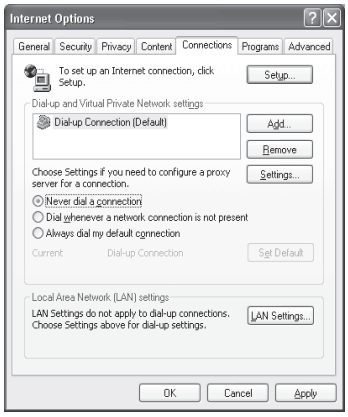
The SAGEM F@st™ 1400/1400W is a router. It contains the parameters of your ADSL subscription. It is therefore pointless carrying these parameters over into the properties of your computer.

You are recommended to check that the Internet browser of each computer is configured in the following way:

Internet Explorer, for example

In the **Tools** menu, click on **Internet Options**.

In the **Connections** tab, select "Never dial a connection".



2 Choice of the port for the modem/router configuration

The modem/router has 2 ports which enable you to configure it:

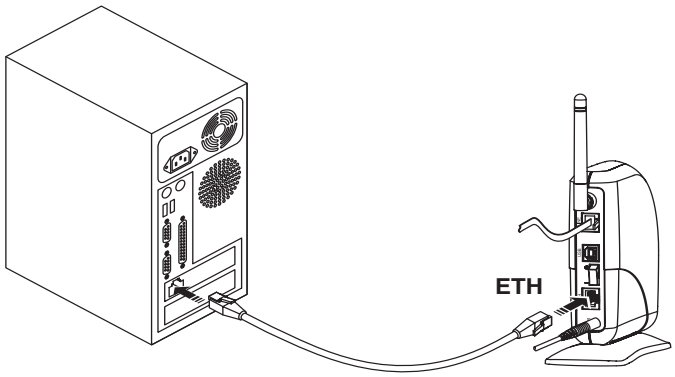
- 1 Ethernet port,
- 1 USB port.

If your computer is provided with an Ethernet card, we recommend that it be configured via the Ethernet port. Should this not be the case, you may use the USB port.

3 Connection via the Ethernet port

3.1 Wiring

- Connect the Ethernet cable (6) to the **ETH** port on the modem/router.
- Connect the other end of the Ethernet cable to your computer's Ethernet card.



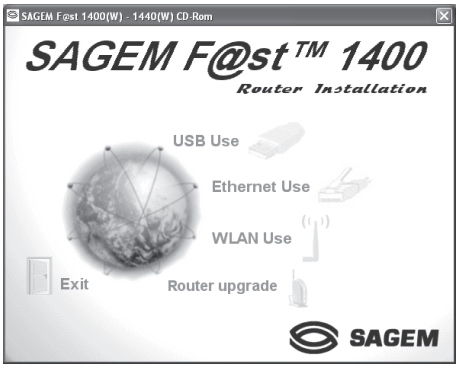
(6)

3.2 Configuring the network parameters

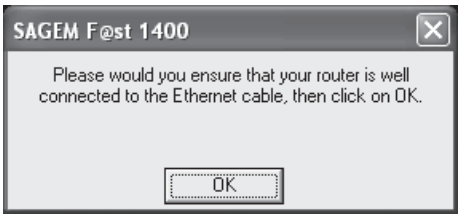
The installation CD-ROM enables you to automatically configure your network card in Windows.

Automatic configuration

- Insert the modem/router installation CD-ROM and the window opposite will come up on the screen.
- Click on **Ethernet Use**.



- Check that the modem/router is:
  - connected to the computer via the Ethernet cable,
  - powered up.



The application searches for your Ethernet card and integrates the parameters required for communicating with the modem/router.

The following screen is displayed:

When configuration is complete, the modem/router settings window opens automatically.

You can now access the modem/router's HTTP configurator.

Refer to chapter 5 - "Access to the HTTP configurator", page 18.

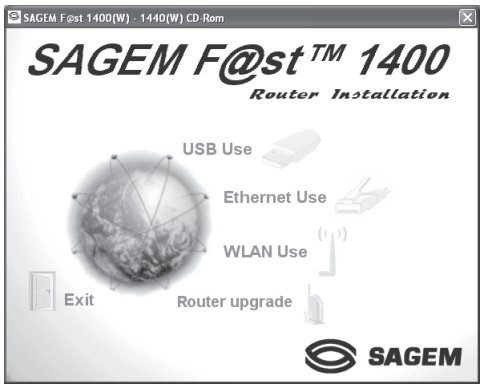
4 Connection via the USB port

Before installing your modem/router, it is essential that you uninstall any other ADSL/USB modem.

Install the USB driver using the installation CD-ROM BEFORE connecting your modem/router to your computer's USB port.

4.1 Installing the USB drivers in Windows

- Insert the your modem/router's installation CD-ROM. The window below will come up on the screen.
- Click on **USB Use.**

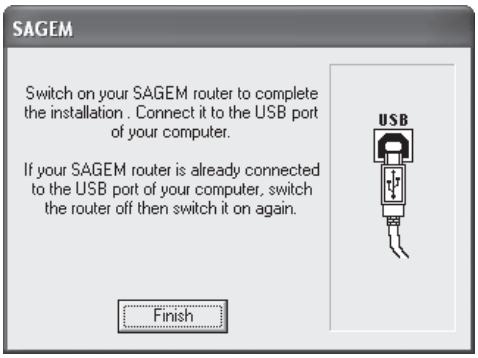


When you insert the modem/router's installation CD-ROM, the program will start up automatically.

If the autorun option is not enabled on your computer, double-click on *My Computer*, then the CD-ROM icon and finally on **AUTORUN.EXE**.

The application installs the drivers required for the modem/router to operate correctly.

- Check that the modem/router is powered up.
- When the screen opposite appears, connect the USB cable to the modem/ router and to the computer (see § 4.4).
- Click on **Finish**.


SAGEM
Switch on your SAGEM router to complete the installation . Connect it to the USB port of your computer.
If your SAGEM router is already connected to the USB port of your computer, switch the router off then switch it on again.
USB
Finish

In Windows 98, if you connect a USB peripheral for the first time, Windows 98 might ask you to insert the Windows 98 CD-ROM in order to install the necessary system files.

The operation to configure the modem/router starts automatically as soon as the drivers have finished being installed.

The modem/router henceforth appears as an Ethernet card which is accessible in the properties of the local network (**Network Neighborhood/Properties**).

You can now access the modem/router's HTTP configurator.

Refer to chapter 5 - "Access to the HTTP configurator", page 18.

4.2 Installing the USB drivers in MacOS X

The installation procedure described below has been performed in MacOS X (10.1 or 10.2). The modem/router can be installed in other operating systems such as MacOS 8.6, MacOS 9.0, MacOS 9.1 and MacOS 9.2 (see following paragraph).

- Insert the modem/router's installation CD-ROM in the CD-ROM drive; an icon appears on the desktop.
- Double-click on this icon in order to bring up the contents of the CD-ROM.
- Double-click in the **OS X** directory in order to initiate program installation.

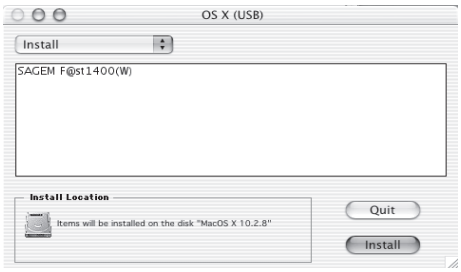
The authentication screen opposite appears.

- Key in the name and password of the **Administrator** account, then click on **OK**.

It is essential to have the **Administrator's** rights to install the modem/router.

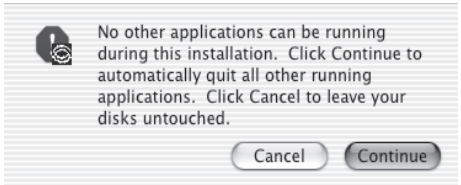
The screen opposite will appear.

- Click on **Install** in order to continue the installation procedure**.**

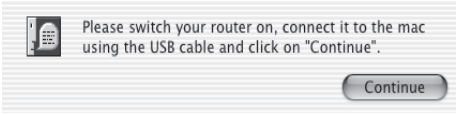


The installation software program will then display a message indicating that installing the modem/router requires all the applications open be closed.

- Click on **Continue** in order to initiate the installation procedure.

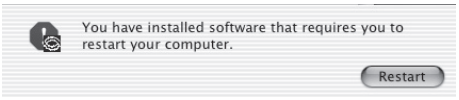

No other applications can be running during this installation. Click Continue to automatically quit all other running applications. Click Cancel to leave your disks untouched.
Cancel
Continue

Once the files have been copied onto the hard disk, the screen opposite will appear.



- Connect the USB cable (5) to the modem/ router via the connector on the rear panel marked **USB** and to the computer (see § 4.4), then click on **Continue**.

The installation procedure has been completed.

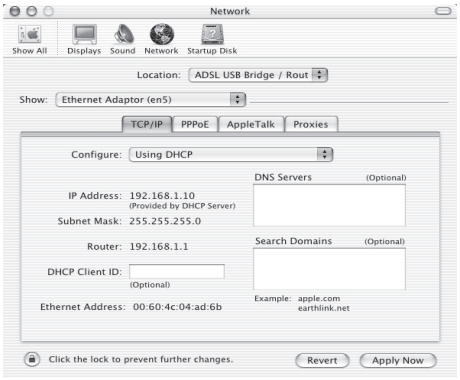


- Click on **Restart**.

- Click on the **Apple** menu in the menu bar, select **System Preferences**, then click on the **Network** icon. The screen opposite will appear.

  The **Location** field should contain **ADSL USB Bridge/Router**.

  The **Show** field should contain **Ethernet Adaptor (en x)**, where "x" is a number allocated by the operating system.



- Select the **TCP/IP** tab.

  The **Configure** field should display **Using DHCP** by default.

  If this is not the case, select this value using the drop-down list.

If **Using PPP** value comes up on the screen, select the **PPPoE** tab and then untick the **Connect using PPPoE** box.

- Click on **Apply Now** in order to validate the connection in DHCP mode.

The **DHCP Client ID**, **DNS Servers** and **Search Domains** fields are optional.

You can now access the modem/router's HTTP configurator.

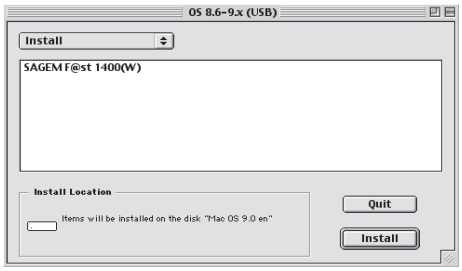
Refer to chapter 5 - "Access to the HTTP configurator", page 18.

4.3 Installing the USB drivers in MacOS 8.6 and 9

The modem/router can be installed on MacOS 8.6, MacOS 9.0, MacOS 9.1 and MacOS 9.2. The example below was carried out in **MacOS 9.0**.

- Insert the modem/router's CD-ROM in the appropriate drive of your computer. An icon will appear on the desktop.
- Double-click on this icon to display the composition of the CD-ROM on the screen.
- Double-click on the **OS 8.6 - 9.x (USB)** icon to activate the install program.
- The install screen opposite will appear.

  Click on **Install** to continue the installation procedure.



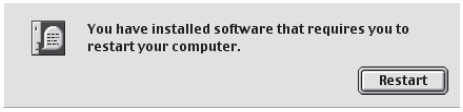
- Once the files have been copied onto the hard disk, the screen opposite will appear.

  Connect the USB cable to the modem/ router on the rear panel of the port where marked **USB** (see § 4.4)

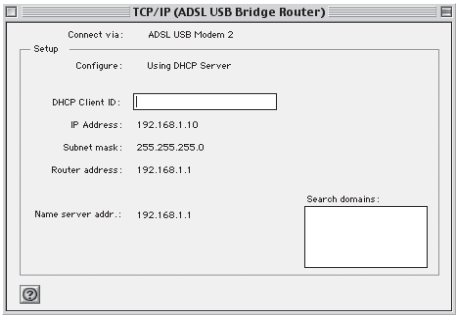
  Then click on **Continue**.

- When the **installation procedure** is **complete**, the screen prompting you to reboot your computer will appear.

  Click on **Restart**.



- Select **Apple / Control Panel / TCP/IP** in the menu bar. The screen opposite will appear.



The **Connect via:** field should display **ADSL USB Modem xxx** by default. If this is not the case, select this value using the drop-down list.

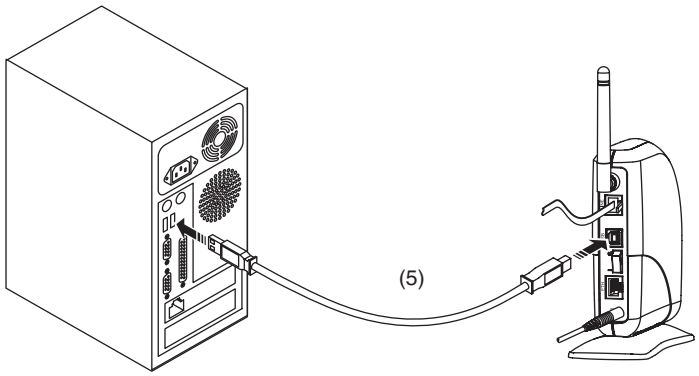
The **Configure:** field should display **Using DHCP Server** by default. If this is not the case, select this value using the drop-down list.

You can now access the modem/router's HTTP configurator.

Refer to chapter 5 - "Access to the HTTP configurator", page 18.

4.4 Wiring

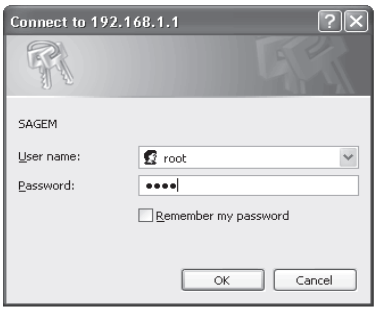
- Connect the "square" end of the USB cable (5) to the modem/router (**USB** port).
- Connect the "flat" end of the USB cable (5) to an available port on your computer or your USB Hub.



5 Access to the HTTP configurator

Access to the modem/router's HTTP configurator is protected by a user name and a password.

The authentication screen is the following:



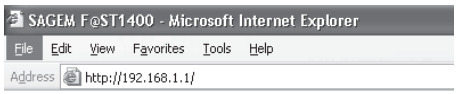
The default settings are:

- User name : **root**
- Password : **1234**

Do not confuse these settings with the subscription settings supplied by your Internet Service Provider. The latter will be used in the following chapter.

If the screen above does not appear:

- Open your Web browser (e.g. Internet Explorer).
- Key in the modem/router's default IP address: **http://192.168.1.1**.
- Validate by pressing **Enter**.

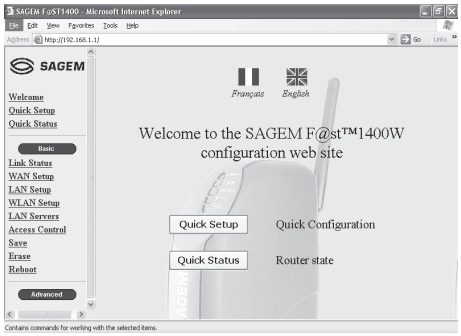


The home page will be displayed in the Web browser.

It enables the language to be chosen and all your modem/router's settings to be accessed.

*The **Basic** and **Advanced** menus differ depending on the modem/router model.*

You can now configure the modem/router.



6 High-speed configuration of your suscription settings

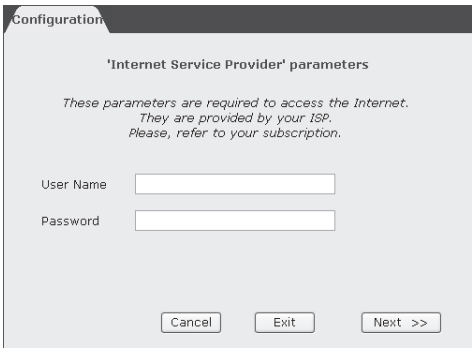
Do not forget to save any modification made to the configuration of your modem/ router.

- To start the Quick Setup wizard, click on **Quick Setup** in the left-side column or in the center of the screen.

The **Quick Setup** wizard enables you to fill in your Internet Service Provider's (ISP) parameters and configure the wireless network settings.

Internet Service Provider's parameters (user account)

- Fill in the user name and then, on a new line, the ADSL password provided by your Internet Service Provider and figuring on your subscription form.



Respect upper case (capital) and lower case letters when entering data.

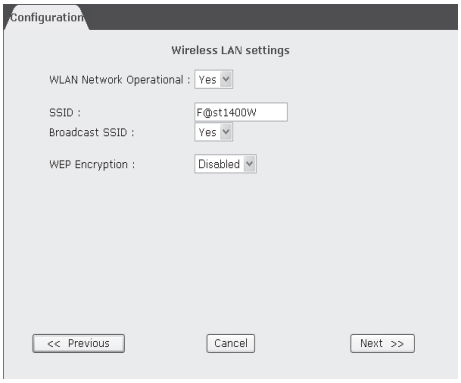
- Click on **Next**.

The **Cancel** button will delete those modifications made to the current page. To return to the previous page, click on **Previous**.

To continue the configuration procedure, click on **Next** once you have filled in all the settings.

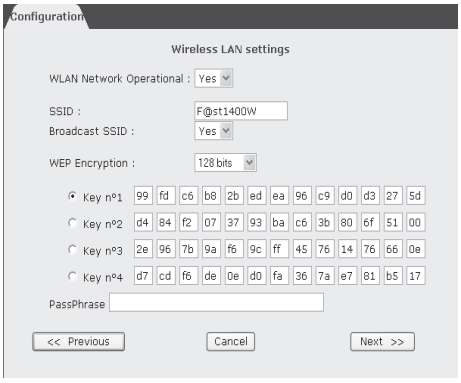
Configuring the wireless network (WLAN) (SAGEM F@st™ 1400W only)

- To activate the wireless network function, select **Yes** in the drop-down list in the **WLAN Network Operational**.
- Modify the **SSID** field with the name of the network of your choice (32 characters at most).



You are recommended to activate the WEP encryption.

Select **128 bits** in the **WEP Encryption** field's drop-down list.


Configuration
Wireless LAN settings
WLAN Network Operational : Yes
SSID : F@st1400W
Broadcast SSID : Yes
WEP Encryption : 128 bits
Key n°1 99 fd c6 b8 2b ed ea 96 c9 d0 d3 27 5d
Key n°2 d4 84 f2 07 37 93 ba c6 3b 80 6f 51 00
Key n°3 2e 96 7b 9a f6 9c ff 45 76 14 76 66 0e
Key n°4 d7 cd f6 de 0e d0 fa 36 7a e7 81 b5 17
PassPhrase
<< Previous
Cancel
Next >>

Selecting the transmission key

- Select the transmission key (keys n° 1 to 4) by clicking on one of the radio buttons.

.

The transmission key is used to encrypt the data transmitted by your computer.

Modifying the keys

Modify the keys so that they are personal and note their values. They will be useful when configuring the rest of your wireless network equipment.

- To modify the keys, key a sentence into the **PassPhrase** field:
  - in 64-bit mode: the sentence generates the 4 keys simultaneously,
  - in 128-bit mode: the sentence generates a key for the line selected.

Make a note of the keys and the sentence keyed in, and keep them in a safe place. Avoid noting them down in a file on your computer.

- You can also modify the keys by keying them directly into the boxes. The characters are "0" to "9" and "A" to "F".
- Click on **Next**.

Saving the parameters

Click on **Save** to save all the settings which have been modified.

A message indicates that the settings have been properly saved and that the modem/ router is going to be restarted if required.

Your modem/router is now configured, so you can access high-speed Internet via your usual Web browser.

CONFIGURING THE WIRELESS NETWORK

The wireless network is only available on the SAGEM F@st™ 1400W.

The Wi-Fi technology protects the data flowing on your wireless network.

This protection is provided by two configurable parameters:

- the SSID identifier
- the WEP encryption key

1 Definitions

The SSID is your wireless network's identifier.

For your wireless network to be able to operate, you must key in the same SSID on your modem/router and on all the computers making up your wireless network.

The WEP - Wired Equivalent Privacy - key serves to encrypt the information exchanged over your wireless network.

Like the SSID, this WEP key must be configured identically on each computer making up your wireless network as well as on your modem/router.

The WEP key format is defined by the IEEE 802.11b standard.

2 Configuring the wireless network on your modem/router

Once you are connected to your modem/router's HTTP configurator, click on **WLAN Setup** in the **Basic** menu.

- To activate the wireless network function, select **Yes** in the drop-down list in the **WLAN Network Operational** field.
  The default SSID is indicated on the cover of this guide.
- Modify the **SSID** field by the name of the network of your choice (32 characters at most).

You are advised to activate WEP encryption.

Select **128 bits** in the drop-down list in the **WEP Encryption** field.

Choosing the transmission key

- Select the transmission key (keys n° 1 to 4) by clicking on one of the radio buttons.

The transmission key is used to encrypt the data transmitted by your computer.

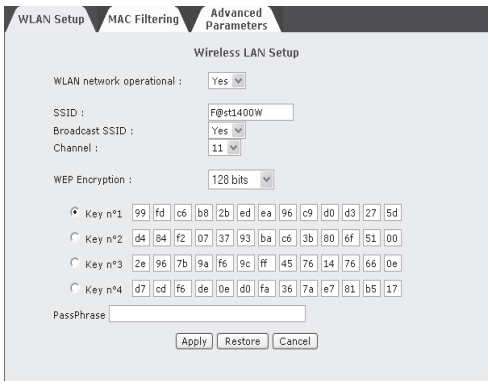
Modifying the keys

Modify the keys so that they are personal and note their values. You will be able to use them when configuring the other pieces of equipment making up your wireless network.

- To modify the keys, key in a sentence in the **PassPhrase** field:
  - in 64-bit mode: the sentence generates the 4 keys simultaneously,
  - in 128-bit mode: the sentence generates a key for the line selected.

Make a note of the keys and the sentence keyed in, and keep them in a safe place. Avoid noting them down in a file on your computer.

- You can also modify the keys by keying them directly into the boxes. The characters are "0" to "9" and "A" to "F".
- Click on **Apply**.


WLAN Setup
MAC Filtering
Advanced Parameters
Wireless LAN Setup
WLAN network operational :
Yes
SSID :
F@st1400W
Broadcast SSID :
Yes
Channel :
11
WEP Encryption :
128 bits
Key n°1 99 fd c6 b8 2b ed ea 96 c9 d0 d3 27 5d
Key n°2 d4 84 f2 07 37 93 ba c6 3b 80 6f 51 00
Key n°3 2e 96 7b 9a f6 9c ff 45 76 14 76 66 0e
Key n°4 d7 cd f6 de 0e d0 fa 36 7a e7 81 b5 17
PassPhrase
Apply
Restore
Cancel

Once you have finished configuring your wireless network on your modem/router, do not forget to click on **Save** so that the new settings are acknowledged.

3 Configuring your computers

To configure the SSID and the WEP key on your computer, please consult the documents delivered with your Wi-Fi accessory.

These elements can be parameterized by means of the application installed with your Wi-Fi accessory's drivers.

In Windows XP, this configuration is possible via the properties of your wireless connection.

SAFETY ON YOUR MODEM/ROUTER

Your SAGEM F@st™ 1400W modem/router has been designed with the constant concern in mind to protect your data and your high-speed Internet access.

The functions described in this chapter therefore protect your installation from intrusions on the Wi-Fi wireless network as well as from Internet.

For a maximum degree of safety, do not hesitate to use each of these functions.

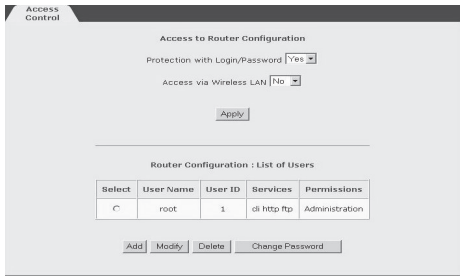
1 Controling access to the HTTP configurator

It is possible to modify the password enabling access to your modem/router's HTTP configurator.

Modifying the password

On the modem/router's home page:

- in the left-side column, click on **Access Control**,
- select the account to be modified,
- click on **Change Password**,



- in the **Old Password** field, key in the former password,
- in the **New Password** field, key in your new password,
- in the **Confirm New Password** field, key in your new password a second time.
- Click on **Apply**.

- Click on **Save** in the left-side frame and confirm by clicking on the **Save** button in the central area.

2 SSID and WEP key (SAGEM F@st™ 1400W only)

These settings protect your wireless network against local intrusions.

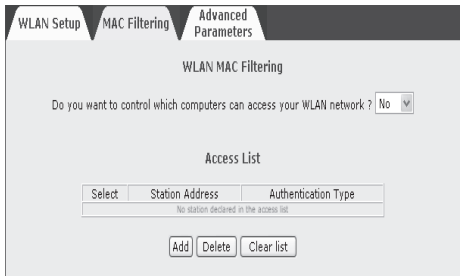
Look up the "Configuring the wireless network" section on page 22.

3 Filtering the Mac addresses (SAGEM F@st™ 1400W only)

This function makes it possible to limit the number of computers with access to your wireless network.

Filtering the MAC addresses on the wireless network

- The access control to your wireless network is deactivated by default. To activate it, choose **Yes** in the drop-down list.
- Using the **Add**, **Delete** and **Clear list** buttons, manage the MAC address list of the computers which you authorize to access your wireless network.



When the MAC addresses are keyed in, click on **Save** in the left-side frame and confirm by clicking on the **Save** button in the central area. Then click on **Restart** in the left-side frame and confirm by clicking on the **Restart** button in the central area.

The MAC address is the identification number of the network cards.

To obtain the MAC address of a wireless network card:

- in Windows 98: **Start** then **Run**, key in **winipcfg**.
- in Windows XP, 2000, Me: **Start** then **Run**, key in **cmd** then **ipconfig /all**. Validate by pressing **Enter**.
- Identify your wireless network card in the list which appears by means of the "Description" line.
- The MAC address sought corresponds to the "Physical address" line.

4 Firewall

Your modem/router has a built-in firewall protecting your wired or wireless local network from intrusions originating in the Internet network.

For the usual Internet uses - consulting Web sites or mail boxes - no specific firewall configuration is required.

However, if you wish to use file sharing software programs (Peer-to-Peer) or even install a server on your local network, refer to the following section.

INSTALLING SERVERS ON THE LOCAL NETWORK

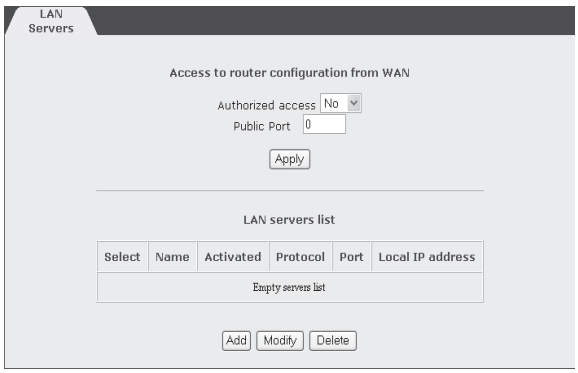
Installing servers on the local network or using certain Peer-to-Peer software programs requires an additional configuration of your modem/router.

This configuration must be carried out once for each server or computer which uses a Peer-to-Peer software program. To do that, the connection with your Internet Service Provider must be set up (meaning that you are able to surf).

1 Configuring the modem/router in order to be able to use servers on the local network

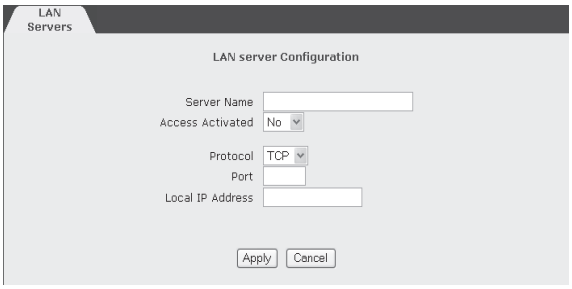
- Click on **LAN Servers** in the **Basic** menu.

The screen opposite will be displayed.



- Click on **Add**.

The screen opposite will be displayed:



- Indicate the name of your server in the **Server Name** field (e.g. **MyServerHTTP**).
- Set **Access Activated** to **Yes**.
- Indicate the protocol and port being used by your server. Refer to the table below for further information.
- Indicate your server's local IP address.
- Click on **Apply**.
- Save by clicking on **Save** button.

You can now access your server from the Internet.

Depending on the type of server you wish to install, the parameters you need to indicate differ:

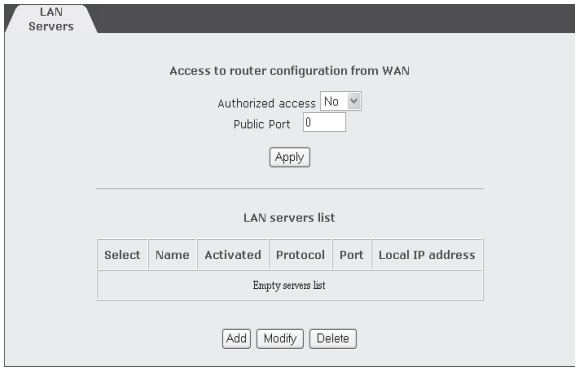
	Private FTP server access from the Internet: port 20 or 21	Private HTTP server access from the Internet: port 80
Protocol	TCP	TCP
Port	20 or 21	80
Local IP address	IP address of your FTP server	IP address of your HTTP server

2 Configuring the modem/router for Peer-to-Peer software programs

Some Peer-to-Peer software programs (e.g. "eMule" and "eDonkey") require an additional configuration of the modem/router:

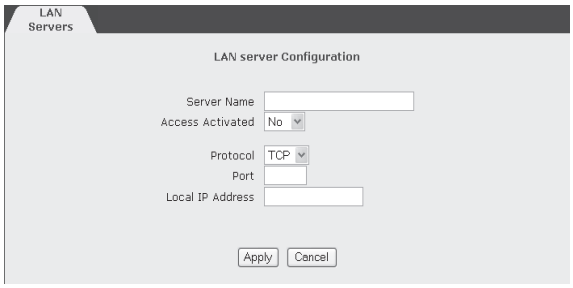
- Click on **LAN Servers** in the **Basic** menu.

The screen opposite will appear.



- Click on **Add**

The screen opposite will appear:



- Indicate the name of the computer using the Peer-to-Peer software program in the **Server Name** field (e.g. **MyPCPeer2Peer**).
- Set **Access Activated** to **Yes**.
- Indicate the protocol and port used by your Peer-to-Peer software program.
  e.g. for "eMule" and "eDonkey", the protocol is **TCP** and the port is **4662**.

- Indicate the computer's local IP address.
- Click on **Apply**.
- Save by clicking on **Save** button.

You can now use your Peer-to-Peer software program.

N.B.: In this way, only one computer can be authorized to use "eMule" or "eDonkey".

If you wish to use several "eMule" or "eDonkey" programs simultaneously, you must change the "eDonkey" or "eMule" default configuration in order to use a port other than 4662 on the additional computers.

To do that, simply change the port in the "eMule" **Connection** menu. Each "eDonkey" (or "eMule") must be configured with a different port.

Then, the configuration described above must be repeated for each additional computer by replacing 4662 with the "eDonkey" or "eMule" port.

TROUBLESHOOTING

1 Absence of ADSL synchronization

The **LINE** LED does not come on or is flashing.

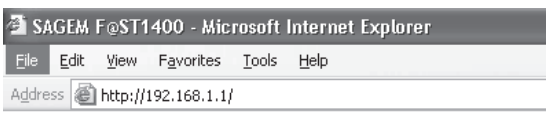
- Check that the modem/router is powered up. The **PWR** LED should be on. If that is not the case:
  - Check that the power pack is properly connected to the mains. If it is connected to a multiple socket block, check that this is powered up.
  - Check that the power pack cable is properly connected to the modem/router.
  - Check that the ON/OFF switch (I/0) is in the "**I**" position.
- Check that the ADSL is properly connected to your telephone socket, to the **LINE** port of the modem/router.
- Check that all the ADSL filters are properly connected to each of your telephone sockets.

All your telephone installation sockets must be fitted with an ADSL filter.

If the problem persists, consult your Internet Service Provider.

2 Access to the HTTP configurator is impossible

- Open your usual Web browser.
- In the **Address** field, type the modem/router's IP address: http://192.168.1.1



If access to the configurator is still impossible, you should carry out the following instructions:

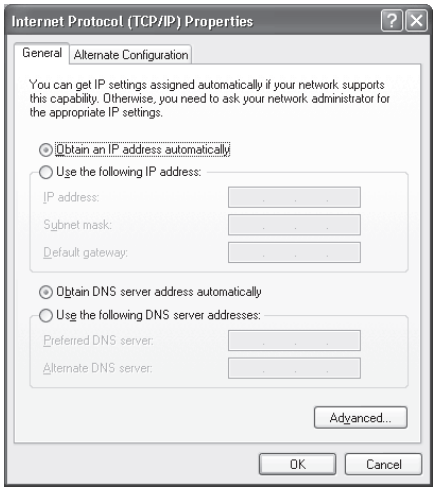
1. Check that the Ethernet or USB cable is properly connected at both its ends.
2. In the event of the USB being used, check that the USB Bridge/Router ADSL peripheral is actually installed on your computer.
3. Check that your computer is configured in DHCP client.

In Windows

- Click on **Start** and then on **Configuration** tab in **Network Properties**.
- Click on the wireless network card's **TCP/IP** protocol, then click on **Properties**.

The screen opposite will be displayed.

- Select the General tab, then the **"Obtain an IP address automatically"** and **"Obtain DNS server address automatically"** command.
- Click on the **OK** button to validate your choice.

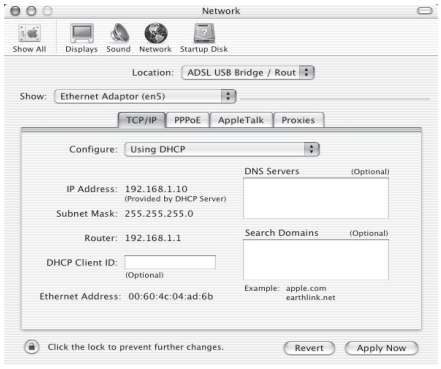

Internet Protocol (TCP/IP) Properties
General
Alternate Configuration
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

In Mac

- Click on the **Apple** menu in the menu bar, select **System Preferences**, then click on the **Network** icon. The following screen will be displayed.
- Select the **TCP/IP** tab.

  The **Configure** field should display **Using DHCP** by default.

  If this is not the case, select this value by means of the drop-down list.



4. Checking IP address allocation.

In Windows

- In Windows 98: **Start** then **Run**, key in **winipcfg**.
- In Windows XP, 2000, Me: **Start** then **Run**, key in **cmd** then **ipconfig /all**. Validate by pressing **Enter**.
- Check that the IP address entry contains a value other than 0.0.0.0 (e.g. 192.168.1.10). If not, reboot your computer.

In Mac (e.g. MacOS X)

- Click on the **Apple** menu in the menu bar.
- Select **System Preferences**, then click on the **Network** icon.
- The IP address field should contain a value other than 0.0.0.0 (e.g. 192.168.1.10). Otherwise, reboot your computer.

5. Have you already modified your HTTP configurator access password?

   If you have and you have lost your password, return to the factory configuration (refer to § 4, page 32).

3 Internet site look-up impossible

Check the state of the ADSL synchronization (see § 1, page 30).

Check that you are able to access the HTTP configurator (see § 2, page 30).

If these two conditions are met, hook up to the modem/router configurator.

In the "Quick Status" menu, look up the "WAN Setup/IP public address" field.

- If no IP is displayed, check your user name and your password. These parameters are supplied by your Internet Service Provider.
- If an IP address has been allocated but you are still unable to access the Internet, we recommend that you return to the factory configuration (see § 4, page 32).
- If the problem persists after you have returned to the factory configuration, please consult your Internet Service Provider.

4 Return to factory configuration

To reconfigure the modem/router with its original parameters:

- Access the modem/router configuration interface by means of an Web browser (e.g. Internet Explorer).
- Erase by clicking on **Erase** button in the **Basic** menu.
- Reboot the modem/router.

If you cannot manage to perform these operations, follow the procedure below:

- Disconnect the Ethernet cable from the modem/router if necessary.
- Connect the initialization key (7) to the Ethernet port on the modem/router.
- Reboot the modem/router.
- All the indicator lights come on and go off.
- Wait for all the indicator lights to come on again (this requires approx. one minute).
- Disconnect the Ethernet initialization key.
- Reconnect the Ethernet cable if necessary.

The modem/router returns to its default configuration, among which are the following settings (the full list is available in the Reference Manual):

IP address: **192.168.1.1**,
User name: **root**,
Password: **1234**.

5 Updating the modem/router's application software progam

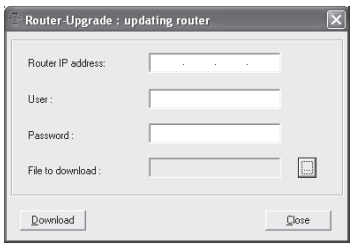
Updating the modem/router's application software program involves a download from a computer connected to the FTP server embedded in the modem/router.

The update can be carried out from a computer in Windows 98, Me, 2000 XP and Mac OS.

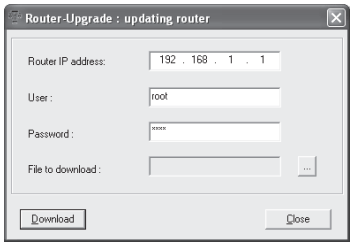
5.1 Procedure to be applied to a computer in Windows

The downloading operation is initiated from a computer in Windows by connecting to the FTP server embedded in the modem/router:

1. Connect your computer to the modem/router, preferably via Ethernet.
2. Insert the SAGEM F@st™ 1400 installation CD-ROM.
3. Click on **Router-Upgrade : updating router**.
4. The dialogue box opposite is displayed:



5. Key in the IP address: **192.168.1.1** (IP address by default of the modem/router's LAN interface) or the address you have given it, if need be.
6. Key in the user name: **root** (by default, or the one you have chosen, if need be).



7. Key in the password: **1234** (by default, or the one you have chosen, if need be).
8. Select the file to be downloaded.
9. Click on **Download** to start the transfer procedure.
10. The download monitoring window opposite will appear:

Downloading
Opening remote file...
Do not perform any action before the end of the file transfert : this might cause severe damage to the router.
Cancel

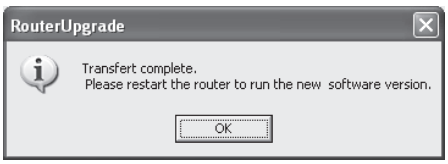
Do not carry out any operation while the file is being transferred, owing to the risk of damage to the modem/router.

The cancel command (available by clicking on the **Cancel** button) should only be used as a last resort.

If the modem/router is affected by a power cut arising during this phase, the operation to update the software program will fail and the modem/router will be unable to restart in the previously active version. In this case, the modem/router starts up in backup mode (see appendix A of the Reference Manual).

A comment area and a progress bar keep you informed as to how the update operation is unfolding.

11. Wait for the dialogue box below telling you the transfer has been completed to appear:
12. Click on **OK** to exit the update application software program.
13. When the software program version has been backed up, the modem/router must be restarted using its ON/OFF switch to activate the new software program version.



5.2 Procedure to be applied to a computer in Mac OS

The downloading operation is initiated from a computer in Mac OS when you connect (preferably via the Ethernet link) to the FTP server embedded in the modem/router:

- Hook your computer up to the modem/router, preferably via Ethernet.
- In Mac OS X, open the "MacOSXmacosversionXEn" disk (located on the desktop) then / applications/utilities. Click on Terminal to open the Mac OS X control mode (to make handling easier, the Terminal could be copied onto the desktop using the **Edit** menu located right at the top of the desktop).
- In Mac OS 9, use a FTP client software program.
- Key in **ftp 192.168.1.1** (IP default address of the modem/router's LAN interface).
- Enter the user name: **root** (by default).
- Enter the password: **1234** (by default).
- Key in **bin**.
- Key in **hash**.
- Key in the command **put** file name in .bin (with .bin extension) **app.2** (e.g. put application.bin app.2).

(the name of the file to be downloaded must be preceded and followed by a "space").

Do not carry out any operation while the file is being transferred, owing to the risk of damage to the modem/router.

If the modem/router is affected by a power cut arising during this phase, the operation to update the software program will fail and the modem/router will be unable to restart in the previously active version.

In this case, the modem/router starts up in backup mode (see appendix A of the Reference Manual).

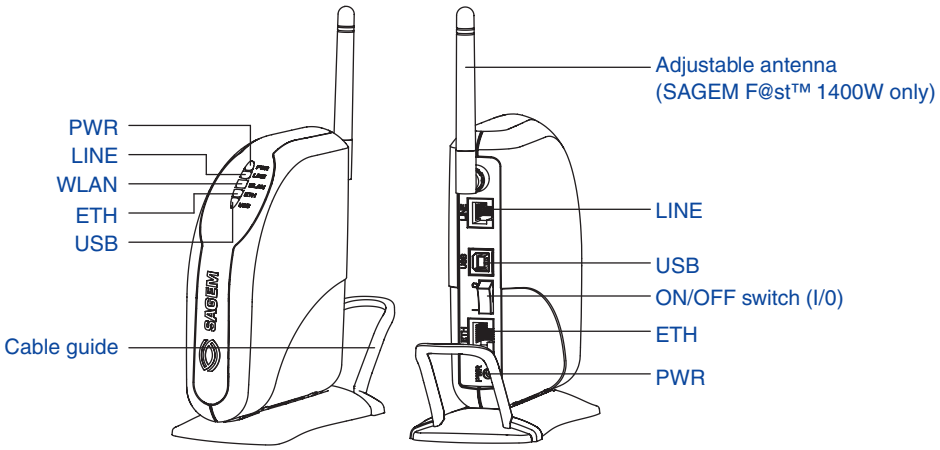
- Wait to get control back from the terminal.

When the software program version has been backed up, the modem/router must be restarted using its switch to activate the new software program version.

APPENDICES

Connect to our Web site (www.sagem.com) to download the latest versions of the drivers and softwares, to look up the Frequently Asked Questions (FAQ) and the electronic documentation relating to your modem.

A Description of the modem/router



LEDs

PWR : Modem/router powered (on)

LINE : ADSL line synchronization

WLAN : Wireless network module installed and active (SAGEM F@st™ 1400W only)

ETH : Connection and traffic on the Ethernet port (network card)

USB : Connection/traffic on the USB port

Connectors

LINE : RJ11 socket for ADSL line

USB : B-type USB socket

ETH : 10/100 T-base network interface Ethernet socket (RJ45)

PWR : Mains adapter cable male connector

Cable guide: When all the cables have been connected, guidehold them correctly in place by clipping the cable guide onto the base of the modem/router.

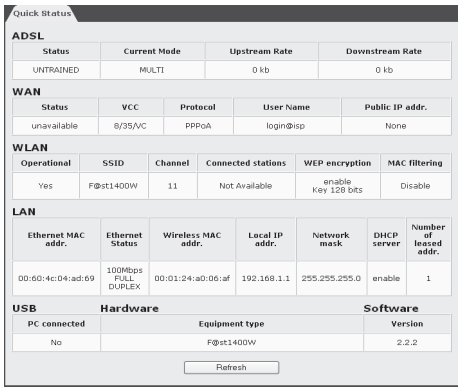
When powered up, the modem/router carries out a test of its LEDs. All the LEDs light up for a few seconds.

LED / Status	On	Flashing	Off
PWR	Modem/router powered on	-	Modem/router powered off
LINE	ADSL line synchronized	ADSL line synchro-nization in progress	ADSL line not synchronized
WLAN*	Wireless network operational	-	Wireless network not operational
ETH	Ethernet link active	Traffic on the Ethernet link	Ethernet link inactive
USB	USB link active	Traffic on the USB link	USB link inactive

* The WLAN LED is significant only in the case of the SAGEM F@st™ 1400W modem/router.

B Modem/router status (QUICK STATUS)

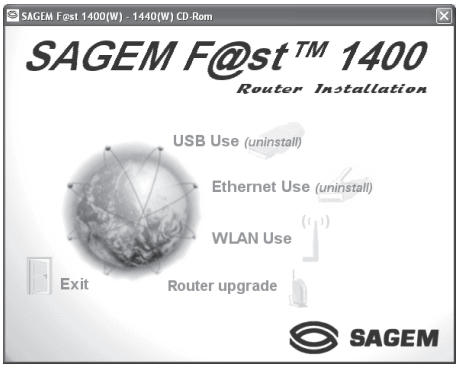
The **Quick Status** page enables the modem/router connection statuses to be viewed.



The fields are described in the Reference Manual on the CD-ROM.

C Uninstalling the modem/router

- Disconnect le modem/router.
- Insert the installation CD-ROM in your computer's CD-ROM drive.
- Click on **USB Use *(uninstall)*** or on **Ethernet Use *(uninstall)***.



The window opposite is displayed:

- Click on **OK**.

When the USB drives or Ethernet parameters have been uninstalled, the menu window is once again accessible.

- Click on **Exit** to terminate.

You can also uninstall the modem/router in the following way:

- in the **Start** menu, click on **All programs**,
- click on **SAGEM F@st™ 1400**,
- click on **Uninstall 1400 ETH** or on **Uninstall 1400 USB** depending on your configuration.

SAFETY INSTRUCTIONS

Environment

- The modem/router should be installed and used inside a building.
- The room temperature should not exceed 45°C.
- The modem/router can be placed on a desktop or fixed vertically in its wall mounting.
- The modem/router should not be exposed to strong sunlight or placed near a substantial source of heat.
- The modem/router should not be placed in an environment where it would be subjected to considerable steam condensation.
- The modem/router should not be exposed to splashes of water.
- The modem/router's casing should not be covered.
- The modem/router and its peripherals should not be used for outdoor transmissions.

Power supply source

- The modem/router's mains adaptor should not be covered.
- The modem/router comes with its own mains adaptor. It should not be used with another adaptor.
- This Class II adaptor does not to be grounded (earthed). The connection to the electrical network should comply with the indications given on the label.
- Use a readily accessible mains outlet located near the modem/router. The power supply cord is 2 m long.
- Arrange the power supply cord in such a way as to avoid any accidental power cut to the modem/router.
- The modem/router is designed to be connected to a GG- (ground-to-ground) or GN- (ground-to-neutral) type power supply network.
- The modem/router is not designed to be connected to to an independent neutral electrical installation.
- Protection against short-circuits and leaks between phase, neutral and earth should be provided by the building's electrical installation. The power supply circuit for this equipment should be fitted with 16 A overcurrent protection and differential protection.
- The modem/router should be connected to the mains via a readily accessible wall socket with a cutout device.

Maintenance

- It is prohibited to open the casing. This must be done only by qualified personnel approved by your supplier.
- Do not use liquid or aerosol cleaning agents.

SAFETY INSTRUCTIONS (contd.)

Safety levels

Primary power source access Bipolar AC mains socket	HPV (Hazardous Primary Voltage circuit)
DC power supply access Miniature fixed connector (PWR)	SELV (Safety Extra Low Voltage circuit)
RJ45 Ethernet access (ETH)	SELV
RJ11 line access (LINE)	TNV-3 (Telecommunication Network Voltage level 3 circuit)

CE

Products bearing this symbol comply with EMC regulations as well as the Low Voltage Directive published by the Commission of the European Community (CEC)

EC declaration

EC compliance declaration

SAGEM SA declares that the product named *SAGEM F@st ™ 1400/1400W* complies with the demands of the European Community directives 1995/5/CE as well as with the essential demands of the directives 89/336/CEE dated 03/05/1989 and 73/23/CEE dated 19/02/1973.
The CE compliance declaration for the *SAGEM F@st ™ 1400/1400W* is implemented within the framework of the R&TTE directive.

NOTES:

NOTES:

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